Calculus Warm Up #4-5

New team # on your WU!

Find the position function, s(t), through (1,3) if $a(t) = 60t^2$, and v(1) = 18.

*Turn in WU & Pink WS, check answers on blue WS, then turn it in also.

Answers blue WS

1. $\frac{2}{9}(3x-2)^{3/2} + C$

2. $\frac{2}{5}(2-x)^{5/2} - 2(2-x)^{3/2} + C$

3. $\frac{3}{7}(t-4)^{7/3} + 3(t-4)^{4/3} + C$

4. $\frac{4}{3}(x+3)^{3/2} - 14(x+3)^{1/2} + C$

5. $\frac{65}{2}$

6. $\frac{10}{3}$

7. $\frac{4752}{35}$

8. $\frac{10}{81}$

HW: Read pgs 293 - 295,

do p. 299 # 1 - 19 odd

Show work without a calculator.